



# LCD TV

LE23R8  
LE26R8

## Contact SAMSUNG WORLD-WIDE

If you have any questions or comments relating to Samsung products,  
please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
REPUBLIC OF IRELAND	0818 717 100	<a href="http://www.samsung.com/uk">www.samsung.com/uk</a>
U.K	0870 SAMSUNG (7267864)	<a href="http://www.samsung.com/uk">www.samsung.com/uk</a>

## Owner's Instructions

Before operating the unit,  
please read this manual thoroughly,  
and retain it for future reference.

**ON-SCREEN MENUS**  
**PC DISPLAY**  
**PICTURE IN PICTURE (PIP)**  
**TELETEXT**

## Precautions When Displaying a Still Image


A still image may cause permanent damage to the TV screen.

### WARNINGS:

Image retention, commonly known as screen burn-in, can occur on most types of television if the same image is displayed continuously. The most common causes of image retention are logos that remain stationary on the TV screen. These logos are common on many programmes received via a Setop Box. To reduce this risk, avoid displaying still images for long durations and lower the brightness or contrast settings to decrease the intensity of the picture. Extended viewing of movies and programs in aspect ratios that are different from the aspect ratio of the TV may cause image retention. Always endeavour to avoid black borders top or bottom by using the zoom function. This will help eliminate the black borders and fit the picture to the entire area of the screen. Using a video game console may cause image retention and is not recommended. When using a PC input, avoid displaying still images for long durations and reduce the brightness or contrast settings to decrease the intensity of the picture.

### IMPORTANT:

Image retention issues are not covered by your Samsung® warranty.

- Do not display a still image on the LCD panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn".  
To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.
-  Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause a similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images.

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Symbol

Press



Important





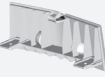

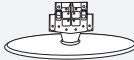

Note



One-Touch  
Button

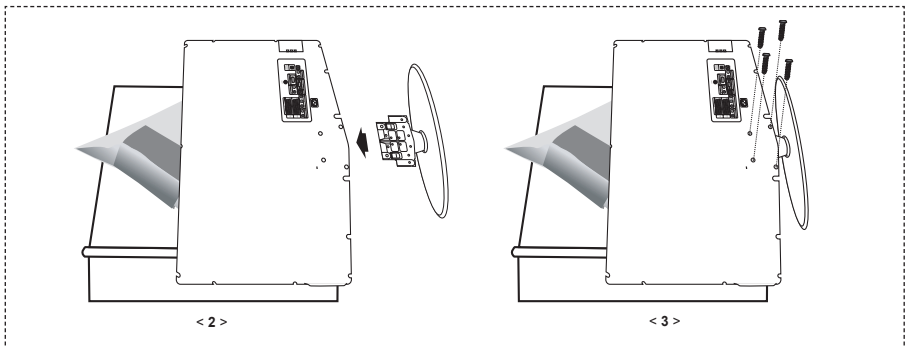
## List of Parts

Please make sure the following items are included with your LCD TV.  
If any items are missing, contact your dealer.

			 M4 X L16		
Remote Control & Batteries (AAA x 2)	Power Cord	Cover-Bottom	Stand Screw X 4	Stand	Cleaning Cloth
•Owner's Instructions			•Registration Card		

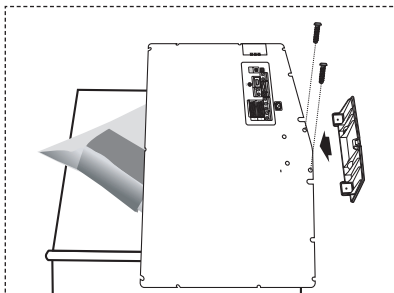
- Registration Cards (Not available in all locations)
- The stand and stand screw may not be included depending on the model.

## Installing the Stand



1. Place the TV faced down on a soft cloth or cushion on a table.
  2. Put the stand into the hole at the bottom of the TV.
  3. Insert screw into the hole indicated and tighten.
- The stand is installed for models with the screen size of 37 inch and above.

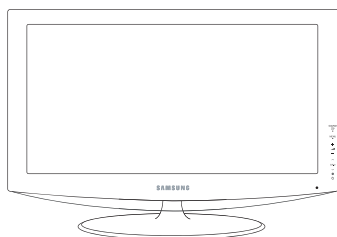
## Installing the Wall Mount Kit



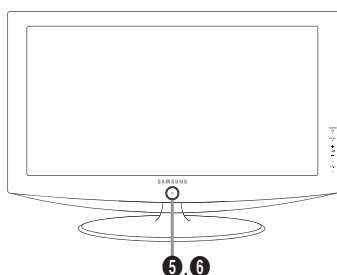
Wall mount items (sold separately) allow you to mount the TV on the wall.  
For detailed information on installing the wall mount, see the instructions provided with the Wall Mount items. Contact a technician for assistance when installing the wall mounted bracket.  
Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

- Remove the stand and cover the bottom hole with a cap and fasten with two screws.

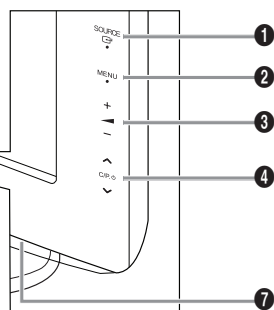
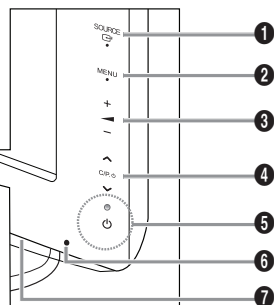
## Viewing the Control Panel



[LE23R81, LE26R81, LE23R83, LE26R83]



[LE23R82, LE26R82, LE23R84, LE26R84]



### Front Panel buttons

Touch the right side of each button to operate.

➤ The product colour and shape may vary depending on the model.

#### 1 SOURCE

Toggles between all the available input sources (TV, Ext1, Ext2, AV, S-Video, Component, PC, HDMI1, HDMI2.). In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.

#### 2 MENU

Press to see an on-screen menu of your TV's features.

#### 3 + -

Press to increase or decrease the volume. In the on-screen menu, use the + - buttons as you would use the ◀ and ▶ buttons on the remote control.

#### 4 < C/P. >

Press to change channels.

In the on-screen menu, use the < C/P. > buttons as you would use the ▲ and ▼ buttons on the remote control.

#### 5 (POWER)

Press to turn the TV on and off.

#### POWER INDICATOR

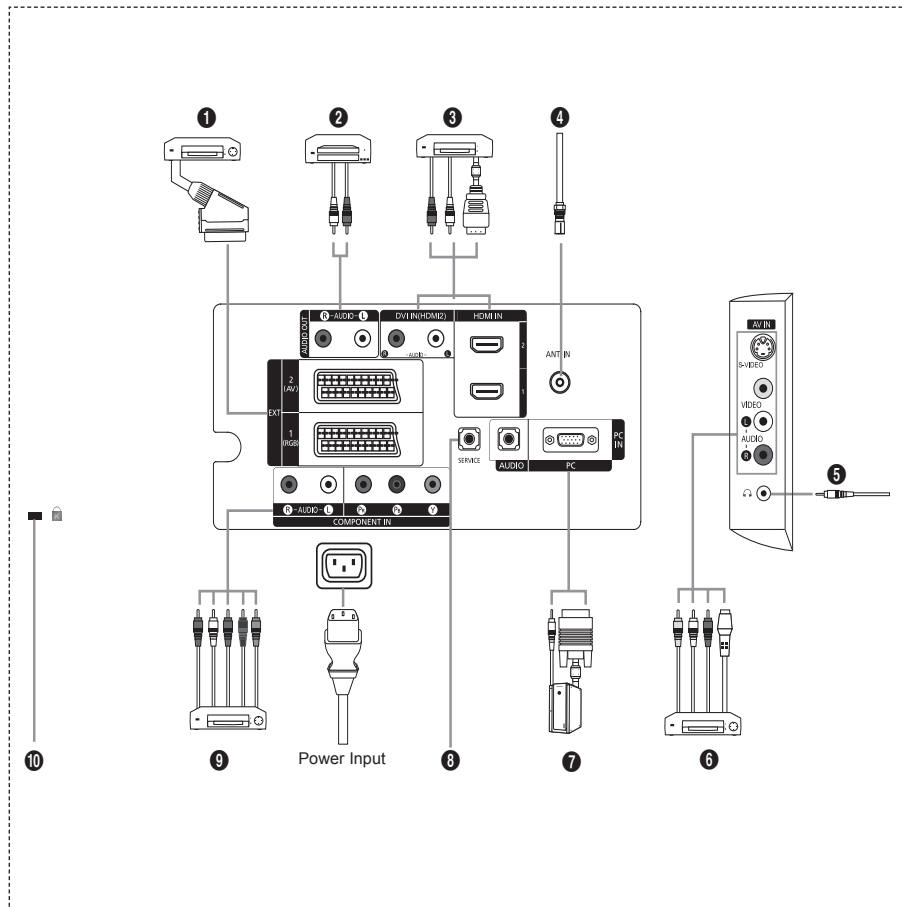
Blinks and turns off when the power is on and lights up in stand-by mode.

#### 6 REMOTE CONTROL SENSOR

Aim the remote control towards this spot on the TV.

#### 7 SPEAKERS

## Viewing the Connection Panel



- Whenever you connect an external device to your TV, make sure that power on the unit is turned off.
- When connecting an external device, match the colour of the connection terminal to the cable.

### 1 Connecting Set-Top Box, VCR or DVD

Connector	Input			Output
	Video	Audio (L/R)	RGB	Video + Audio (L/R)
EXT 1	o	o	o	Only TV
EXT 2	o	o		Output you can choose.

-Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

## 2 Connecting AUDIO

- Connect RCA audio cables to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio in connectors on the Amplifier or DVD Home Theater.

## 3 HDMI IN 1, HDMI IN 2

- Supports connections between HDMI-connection-enabled AV devices (Set-Top Boxes, DVD players)
- No additional Audio connection is needed for an HDMI to HDMI connection.

### ➤ What is HDMI?

- "High Definition Multimedia interface" allows the transmission of high definition digital video data and multiple channels of digital audio (5. 1 channels).
- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

## DVI IN (HDMI IN 2) / (AUDIO R/L)

- When connecting this product via HDMI or DVI to a Set Top Box, DVD Player or Games Console etc, make sure that it has been set to a compatible video output mode as shown in the table below. Failure to observe this may result in picture distortion, image breakup or no picture.
- When using an HDMI/DVI cable connection, it is only possible from the HDMI 2 IN terminal.
- You should use the DVI-to-HDMI cable or DVI-HDMI Adapter for the connection, and the "R- AUDIO - L" terminal on DVI for sound output.
- Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i
HDMI/DVI 50Hz	X	X	X	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O
Component	O	O	O	O	O	O

## 4 Connecting an Aerial or Cable Television Network

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial / A cable television network / A satellite network

## 6 Connecting External A/V Devices

- Connect RCA or S-VIDEO cable to an appropriate external A/V device such as VCR, DVD or Camcorder.
- Connect RCA audio cables to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the A/V device.
- Headphone may be connected to the headphone output (5) on the rear of your set. While the head phone is connected, the sound from the built-in speakers will be disabled.

## 7 Connecting Computer

- Connect the D- Sub cable (optional) to "PC (PC IN)" on the rear of your set and the other end to the Video Card of your computer.
- Connect the stereo audio cable (optional) to "AUDIO (PC IN)" on the rear of your set and the other end to "Audio Out" of the sound card on your computer.

## **8 SERVICE**

- Service connection for qualified service engineer.

## **9 Connecting Component Devices (DTV/DVD)**

- Connect component video cables (optional) to component connector ("P<sub>R</sub>", "P<sub>B</sub>", "Y") on the rear of your set and the other ends to corresponding component video out connectors on the DTV or DVD.
- If you wish to connect both the Set-Top Box and DTV (or DVD), you should connect the Set-Top Box to the DTV (or DVD) and connect the DTV (or DVD) to component connector ("P<sub>R</sub>", "P<sub>B</sub>", "Y") on your set.
- The P<sub>R</sub>, P<sub>B</sub> and Y connectors on your component devices (DTV or DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
- Connect RCA audio cables (optional) to "R - AUDIO - L" on the rear of your set and the other ends to corresponding audio out connectors on the DTV or DVD.
- This LCD TV displays its optimum picture resolution in 720p mode.
- This LCD TV displays its maximum picture resolution in 1080i mode.

## **10 Kensington Lock**

- The Kensington lock (optional) is a device used to physically fix the system when used in a public place.
- If you want to use a locking device, contact the dealer where you purchased the TV.
- The place of the Kensington Lock may be different depending on its model.

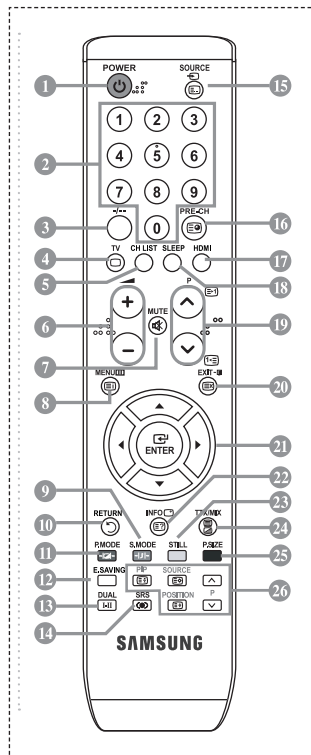


# Viewing the Remote Control

- ❶ Television Standby button
- ❷ Number buttons for direct channel access
- ❸ One/Two-digit channel selection
- ❹ Selects the TV mode directly
- ❺ Used to display Channel Lists on the screen.
- ❻ 🔊 Volume increase  
⏮️ Volume decrease
- ❼ Temporary sound switch-off
- ❽ Menu display and change confirmation
- ❾ Sound mode selection
- ❿ Returns to the previous menu.
- ⓫ Picture effect selection
- ⓬ Adjusts screen brightness to save energy.
- ⓭ Sound effect selection
- ⓮ SRS TSXT selection
- ⓯ Available source selection
- ⓰ Previous channel
- ⓱ Selects the HDMI mode directly.
- ⓲ Automatic Power-off
- ⓳ P⏪: Next channel  
P⏩: Previous channel
- ⓴ Exit the OSD
- ⓴ Control the cursor in the menu
- ⓴ Use to see information on the current broadcast
- ⓴ Picture freeze
- ⓴ Picture size selection
- ⓴ PIP:Picture-In-Picture On / Off  
SOURCE: Input source selection  
POSITION: PIP position selection  
P⏪: Next channel  
P⏩: Previous channel

## Teletext Functions

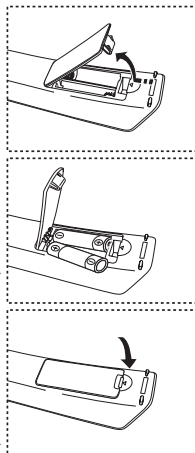
- ❹ Exit from the teletext display
- ❽ Teletext index
- ⓯ Teletext mode selection (LIST/FLOF)
- ⓰ Teletext sub page
- ⓱ P⏪: Teletext next page  
P⏩: Teletext previous page
- ⓴ Teletext cancel
- ⓴ Teletext reveal
- ⓴ Alternately select Teletext, Double, or Mix.
- ❸ ❶ ❷ ❸ Fasttext topic selection
- ⓴ PIP:Teletext Hold
- ⓴ SOURCE: Teletext Store
- ⓴ POSITION: Teletext size selection



➤ This is a special remote control for the visually impaired, and has Braille points on the Power, Channel and Volume buttons.

## Installing Batteries in the Remote Control

1. Lift the cover at the back of the remote control upward as shown in the figure.
  2. Install two AAA size batteries.
    - Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.
  3. Replace the cover.
    - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV.  
(Assuming typical TV usage, the batteries last for about one year.)
- If the remote control doesn't work, check the following:
1. Is the TV power on?
  2. Are the plus and minus ends of the batteries reversed?
  3. Are the batteries drained?
  4. Is there a power outage, or is the power cord unplugged?
  5. Is there a special fluorescent light or neon sign nearby?



## Switching On and Off

The mains lead is attached to the rear of your set.

1. Plug the mains lead into an appropriate socket.
  - The standby indicator lights up on the front of the set.
2. Press the  $\phi$  button on the front of the set.
  - You also can press the **POWER**  $\phi$  button or the **TV** button on the remote control to turn the TV on.
  - The programme that you were watching last is reselected automatically.
3. Press the numeric button (0~9) or channel up/down ( $\odot/\odot$ ) button on the remote control or  $\langle$  **CH P**  $\phi$   $\rangle$  button on the right side of the set.
  - When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
4. To switch your set off, press the **POWER**  $\phi$  button again.

## Placing Your Television in Standby Mode

Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1. Press the **POWER**  $\phi$  button on the remote control.
  - The screen is turned off and a red standby indicator appears on the front of your set.
2. To switch your set back on, simply press the **POWER**  $\phi$ , numeric buttons (0~9), **TV** button or channel up/down ( $\odot/\odot$ ) button again.
  - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example).  
It is best to unplug the set from the mains and aerial.

## Plug & Play

When the TV is initially powered on, several basic settings proceed automatically and subsequently. The following settings are available.

1. Press the **POWER** button on the remote control.  
The message "Start Plug & Play" is displayed with "OK" selected.
2. Select the appropriate language by pressing the **▲** or **▼** buttons.  
Press the **ENTER** button to confirm your choice.
3. Press the **◀** or **▶** buttons to select "Shop" or "Home", then the **ENTER** button.
  - We recommend setting the TV to Home mode for the best picture in your home environment.
  - Shop mode is only intended for use in retail environments.
  - If the unit is accidentally set to Shop mode and you want to return to Dynamic (Home) mode, press the Volume button and then hold down the **MENU** button for five seconds on the side panel of the TV.
4. The message "Check antenna input." is displayed with "OK" selected.  
Press the **ENTER** button.
  - Please check that the antenna cable is connected correctly.
5. Select the appropriate country by pressing the **▲** or **▼** button.  
Press the **ENTER** button to confirm your choice.
6. The "Auto Store" menu is displayed with the "Start" selected. Press the **ENTER** button.
  - The channel search will start and end automatically.  
After all the available channels are stored, the "Clock Set" menu appears.
  - Press the **ENTER** button at any time to interrupt the memorization process.
7. Press the **ENTER** button.  
Select the "Month", "Year", "Day", "Hour" or "Minute" by pressing the **◀** or **▶** buttons.  
Set the "Month", "Year", "Day", "Hour" or "Minute" by pressing the **▲** or **▼** buttons.
  - You can also set the hour and minute by pressing the number buttons on the remote control.

Press the **ENTER** button to confirm your setting.



- ♦ **Language:** Select your language.
- ♦ **Country:** Select your country.
- ♦ **Auto Store:** Automatically scans for and stores channels available in the local area.
- ♦ **Clock Set:** Sets the current time for the TV clock.

If you want to reset this feature...

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **ENTER** button again, to select "Plug & Play".
3. The message to "Start Plug & Play" is displayed.



- Storing Channels Automatically
- Storing Channels Manually



## Storing Channels Automatically

You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However, you can sort numbers manually and clear any channels you do not wish to watch.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
2. Press the **ENTER** button to select "Country".
3. Select the appropriate country by pressing the **▲** or **▼** button.  
Press the **ENTER** button to confirm your choice.
4. Press the **▲** or **▼** button to select "Auto Store", then press the **ENTER** button.
5. Press the **ENTER** button.
  - > The TV will begin memorizing all of the available channels.
  - > Press the **ENTER** button at any time to interrupt the memorization process and return to the "Channel" menu.
6. After all the available channels are stored, the "Sort" menu appears.

## Storing Channels Manually

You can store up to 100 channels, including those received via cable networks.

When storing channels manually, you can choose:

◆ Whether or not to store each of the channels found.

◆ The programme number of each stored channel which you wish to identify.


1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Manual Store", then press the **ENTER** button.
3. Press the **ENTER** button to select "Programme".
4. To assign a programme number to a channel, find the correct number by pressing the **▲** or **▼** button and then press the **ENTER** button.  
➢ You can also set a programme number by pressing number buttons on the remote control.
5. Press the **▲** or **▼** button to select "Colour System", then press the **ENTER** button.
6. Select the colour standard required by pressing the **▲** or **▼** button then, press the **ENTER** button.
7. Press the **▲** or **▼** button to select "Sound System", then press the **ENTER** button.
8. Select the sound standard required by pressing the **▲** or **▼** button, then press the **ENTER** button.  
➢ If there is an abnormal sound or no sound, re-select the sound system required.
9. If you know the number of the channel to be stored, press the **▲** or **▼** button to select "Channel".  
Press the **ENTER** button. Select **C** (Air channel) or **S** (Cable channel) by pressing the **▲** or **▼** button. Press the **▶** button to select channel.  
Select the required number by pressing the **▲** or **▼** button and then press the **ENTER** button.  
➢ Channel mode: **P** (Programme mode), **C** (Air channel mode), **S** (Cable channel mode)  
➢ You can also set a channel number by pressing number buttons on the remote control.
10. If you do not know the channel numbers, press the **▲** or **▼** button to select "Search".  
Press the **ENTER** button. Search by pressing the **▲** or **▼** button and then press the **ENTER** button.
11. Press the **▲** or **▼** button to select "Store". Press the **ENTER** button to select "OK".
12. Repeat steps 3 to 11 for each channel to be stored.

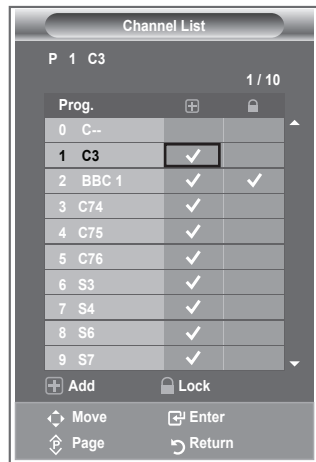
- ◆ **Programme:** Selects a program number for the channel.
- ◆ **Colour System:** Sets the colour supporting system.
- ◆ **Sound System:** Sets the sound supporting system.
- ◆ **Channel:** Selects a channel.
- ◆ **Search:** Scans for the frequency value for the channel.
- ◆ **Store:** Saves your settings.

## Setting the Channel Lists

Set the channels according to your preference.  
You can easily delete, add, or lock the channel you want.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
  2. Press the **▲** or **▼** button to select "Channel Manager", then press the **ENTER** button.
  3. Press the **ENTER** button again, to select "Channel List".
  4. Press the **►** button to select " " line.
  5. Press the **▲** or **▼** button to select the undesired channel, then press the **ENTER** button to cancel.
  6. Repeat steps 5 for each channel to be selected or canceled
  7. Press the **EXIT** button to exit.
- " " is active when "Child Lock" is selected to "On".

 You can select these options by simply pressing the **CH LIST** button on the remote control.

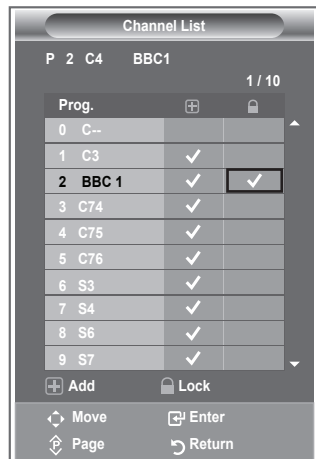


## Activating the Child Lock

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.

Child Lock cannot be released using the buttons on the side. Only the remote control can release the Child Lock setting, so keep the remote control away from children.

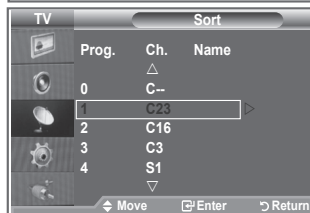
1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
  2. Press the **▲** or **▼** button to select "Channel Manager", then press the **ENTER** button.
  3. Press the **▲** or **▼** button to select "Child Lock", then press the **ENTER** button.
  4. Press the **▲** or **▼** button to select "On" or "Off". Press the **ENTER** button.
  5. Press the **▲** or **▼** button to select "Channel List", then press the **ENTER** button.
  6. Press the **►** button to select " " line.
  7. Press the **▲** or **▼** button to select the channels you want to lock, then press the **ENTER** button.
  8. Repeat steps 7 for each channel to be locked or unlocked.
  9. Press the **EXIT** button to exit.
- Select "On" or "Off" in "Child Lock" to easily turn the channels which selected on " " to be active or inactive.



## Sorting the Stored Channels

You can exchange the numbers of two channels, in order to:

- ◆ Modify the numeric order in which the channels have been automatically stored.
  - ◆ Give easily remembered numbers to the channels that you watch most often.
1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
  2. Press the **▲** or **▼** button to select "Sort", then press the **ENTER** button.
  3. Select the channel number that you wish to change by pressing the **▲** or **▼** button repeatedly. Press the **ENTER** button.
    - The selected channel number and name are moved to right side.
  4. Press the **▲** or **▼** button to move to the position in which you would like to change and then press the **ENTER** button.
    - The selected channel is exchanged with the one previously stored to the chosen number.
  5. Repeat steps 3 to 4 for another channel to be sorted.
  6. Press the **EXIT** button to exit.



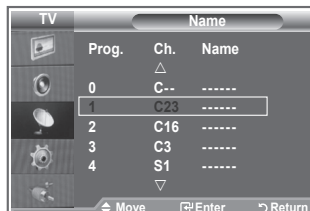
## Assigning Channels Names

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Name", then press the **ENTER** button.
3. If necessary, select the channel to be assigned to a new name by pressing the **▲** or **▼** button. Press the **ENTER** button.
  - The selection bar is displayed around the name box.

To...	Then...
Select a letter, number or symbol	Press the <b>▲</b> or <b>▼</b> button
Move on the next letter	Press the <b>▶</b> button
Move back the previous letter	Press the <b>◀</b> button
Confirm the name	Press the <b>ENTER</b> button

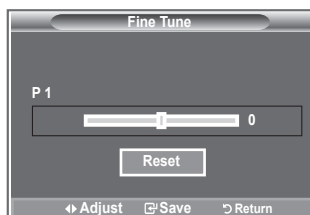
- The characters available are : Letters of the alphabet (A~Z) / Numbers (0~9) / Special characters ( -, space)
5. Repeat steps 3 to 4 for each channel to be assigned to a new name.
  6. Press the **EXIT** button to exit.



## Fine Tuning Channel Reception

Use fine tuning to manually adjust a particular channel for optimal reception.

1. Use the number buttons to directly select the channel that you want to fine tune.
2. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Channel", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "Fine Tune", then press the **ENTER** button.
4. Press the **◀** or **▶** button to adjust the fine tuning. Press the **ENTER** button.
5. Press the **EXIT** button to exit.
  - Fine tuned channels that have been saved are marked with an asterisk "\*" on the right-hand side of the channel number in the channel banner. And the channel number turns red.
  - To reset the fine-tuning, select "Reset" by pressing the **▲** or **▼** button and then press the **ENTER** button.



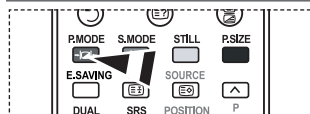
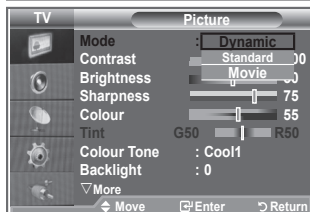
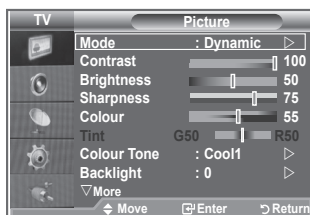
## Changing the Picture Standard

You can select the type of picture which best corresponds to your viewing requirements.

1. Press the **MENU** button to display the menu. Press the **ENTER** button, to select "Picture".
2. Press the **ENTER** button again, to select "Mode".
3. Press the **▲** or **▼** button to select the desired picture effect. Press the **ENTER** button.
4. Press the **EXIT** button to exit.

- ♦ **Dynamic:** Selects the picture for high-definition in a bright room.
- ♦ **Standard:** Selects the picture for optimum display in a normal environment.
- ♦ **Movie:** Selects the picture for comfortable display in a dark room.

- The Picture mode must be adjusted separately for each input source.
- You can return to the factory defaults picture settings by selecting the "Reset". (Refer to "Resetting the Picture Settings to the Factory Defaults" on page 19)



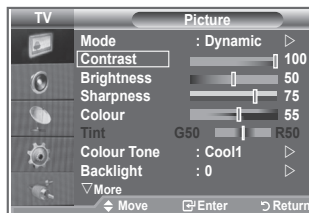
- You can also press the **P.MODE** button on the remote control to select one of the picture settings.



## Adjusting the Custom Picture

Your set has several settings which allow you to control picture quality.

1. To select the desired picture effect, follow the "Changing the Picture Standard" instructions number 1 to 3. (on page 14)
2. Press the ▲ or ▼ button to select a particular item. Press the **ENTER** button.
3. Press the ◀ or ▶ button to decrease or increase the value of a particular item. Press the **ENTER** button.
4. Press the **EXIT** button to exit.



- ♦ **Contrast:** Adjusts the lightness and darkness between objects and the background.
- ♦ **Brightness:** Adjusts the brightness of the whole screen.
- ♦ **Sharpness:** Adjusts the outline of objects to either sharpen them or make them more dull.
- ♦ **Colour:** Adjusts the colours, making them lighter or darker.
- ♦ **Tint(NTSC only):** Adjusts the colour of objects, making them more red or green for a more natural look.

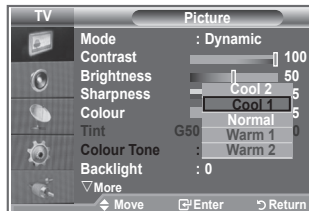
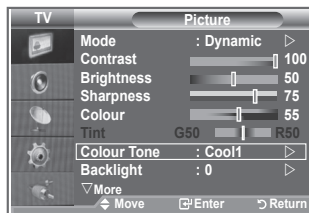
- The adjusted values are stored according to the selected Picture mode.
- In PC Mode, Only "Contrast", "Brightness" and "Colour" can be adjusted.
- "Tint" function is available only in "HDMI" and "Component" mode.

## Changing the Colour Tone

You can select the most comfortable colour tone to your eyes.

1. To select the desired picture effect, follow the "Changing the Picture Standard" instructions number 1 to 3. (on page 14)
2. Press the ▲ or ▼ button to select "Colour Tone", then press the **ENTER** button.
3. Press the ▲ or ▼ button to select the desired colour tone setting. Press the **ENTER** button.
4. Press the **EXIT** button to exit

- ♦ **Cool2:** Makes the colour temperature bluer than "Cool1" menu.
- ♦ **Cool1:** Makes whites bluish.
- ♦ **Normal:** Keeps whites white.
- ♦ **Warm1:** Makes whites reddish.
- ♦ **Warm2:** Makes the colour temperature redder than "Warm1" menu.

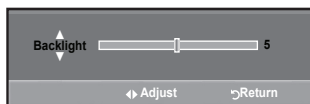
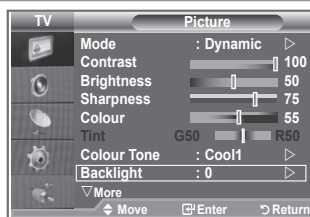


- The adjusted values are stored according to the selected Picture mode.
- When the picture mode is set to Dynamic or Standard, Warm1 and Warm2 cannot be selected.

## Activating Backlight.

You can adjust the screen brightness by adjusting the LCD backlight brightness. (0~10)

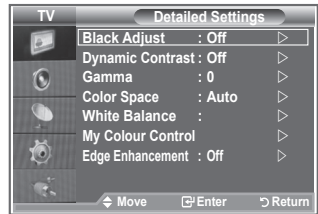
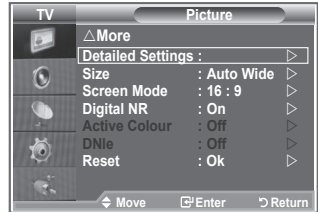
1. To select the desired picture effect, follow the "Changing the Picture Standard" instructions number 1 to 3. (On page 14)
2. Press the ▲ or ▼ button to select "Backlight", then press the **ENTER** button.
3. Press the ◀ or ▶ button to decrease or increase the value of a particular item.  
Press the **ENTER** button.
4. Press the **EXIT** button to exit.



## Configuring Detailed Settings on the Picture

You can set detailed picture settings.

- 1 Press the **MENU** button to display the menu.
- 2 Press the **ENTER** button, to select "Picture".
- 3 Press the **▲** or **▼** button to select Detail Settings, then press the **ENTER** button.
- 4 Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.  
Available options: Black Adjust, Dynamic Contrast, Gamma, Color Space, White Balance, My Colour Control, Edge Enhancement
- 5 When you are satisfied with your setting, press the **ENTER** button.
- 6 Press the **EXIT** button to exit.
  - When the picture mode is set to Movie or Standard, Detailed Settings can be selected.
  - If DNIe is Off, the Detailed Settings cannot be selected when the Picture mode is in Standard mode.






- ◆ **Black Adjust: Off/Low/Medium/High**  
You can directly select the black level on the screen to adjust the screen depth.
- ◆ **Dynamic Contrast: Off/Low/Medium/High**  
You can adjust the screen contrast so that the optimal contrast is provided.
- ◆ **Gamma: -3 ~ 3**  
You can adjust the middle brightness of pictures.  
Press the **◀** or **▶** button until you reach the optimal setting.
- ◆ **Colour Space: Auto/Wide**  
You can set the color reproduction space for the input signal to Auto or Wide.
- ◆ **White Balance: R Offset/G Offset/B Offset/R Gain/G Gain/B Gain/Reset**  
You can adjust the color temperature for more natural picture colors.  
R Offset/G Offset/B Offset/R Gain/G Gain/B Gain: Changing the adjustment value will refresh the adjusted screen.  
Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.  
Press the **◀** or **▶** button until you reach the optimal setting.  
Reset: The previously adjusted white balance will be reset to the factory defaults.
- ◆ **My colour Control: Pink/Green/Blue/White/Reset**  
This setting can be adjusted to suit your personal preferences.  
Pink/Green/Blue/White: Changing the adjustment value will refresh the adjusted screen.  
Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.  
Press the **◀** or **▶** button until you reach the optimal setting.  
➢ Reset: The previously adjusted colours will be reset to the factory defaults.
- ◆ **Edge Enhancement: Off/On**  
You can emphasize object boundaries.

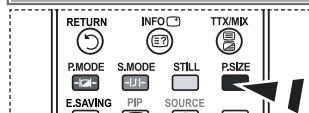
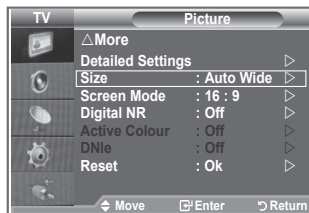
## Changing the Picture Size


You can select the picture size which best corresponds to your viewing requirements.

1. Press the **MENU** button to display the menu.  
Press the **ENTER** button, to select "Picture"
2. Press the **▲** or **▼** button to select "Size", then press the **ENTER** button.
3. Select the required option by pressing the **▲** or **▼** button.  
Press the **ENTER** button.
4. Press the **EXIT** button to exit.

- ♦ **Auto Wide**: Automatically adjusts the picture size to the "16:9" aspect ratio.
- ♦ **16:9**: Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- ♦ **Wide Zoom**: Magnify the size of the picture more than 4:3.
- ♦ **Zoom**: Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- ♦ **4:3**: This is the default setting for a video movie or normal broadcasting.
- ♦ **Just Scan**: Displays the input scenes as they are without any cutoff when HDMI 720p, 1080i signals are input.

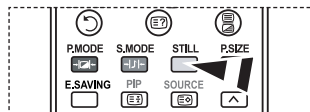
- > "Auto Wide" function is available only in "TV", "Ext1", "Ext2", "AV", and "S-Video" mode.
- > In PC Mode, only "16:9" or "4:3" mode can be adjusted.
- > Zoom: Select  by pressing the **◀** or **▶** buttons.  
Use the **▲** or **▼** button to move the picture up and down. After selecting , use the **▲** or **▼** button to magnify or reduce the picture size in the vertical direction.
- > Wide Zoom: Move the screen up/down using the **▲** or **▼** buttons after selecting the  by pressing the **▶** or **ENTER** button.



 You can select these options by simply pressing the **P.SIZE** button on the remote control.

## Freezing the Current Picture

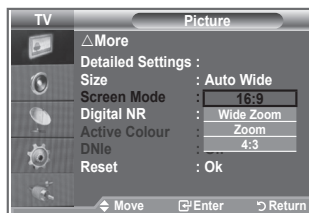
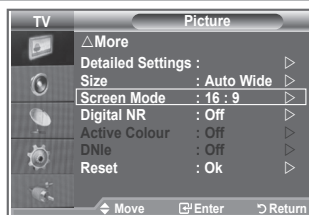
Press the **STILL** button to freeze a moving picture into a still one. Press again to cancel.



## Selecting the Screen Mode

When setting the picture size to Auto Wide in a 16:9 wide TV, you can determine the picture size you want to see the 4:3 WSS (Wide Screen Service) image or nothing. Each individual European country requires different picture size so this function is intended for users to select it.

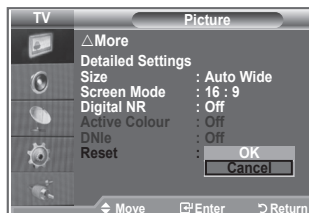
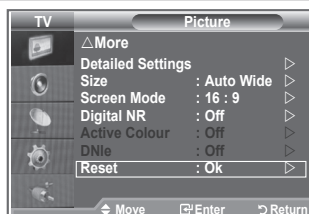
1. Press the **MENU** button to display the menu.  
Press the **ENTER** button, to select "Picture".
2. Press the **▲** or **▼** button to select "Screen Mode", then press the **ENTER** button.
3. Select the required option by pressing the **▲** or **▼** button.  
Press the **ENTER** button.  
Available options: 16:9, Wide Zoom, Zoom, 4:3
  - ◆ 16:9: Sets the picture to 16:9 wide mode.
  - ◆ Wide Zoom: Magnify the size of the picture more than 4:3.  
Move the screen up/down using the **▲** or **▼** button after selecting the by pressing the **►** or **ENTER** button.
  - ◆ Zoom: Magnify the size of the picture vertically on screen.
  - ◆ 4:3: Sets the picture to 4:3 normal mode.
4. Press the **EXIT** button to exit.
  - Picture Size is available in Auto Wide mode.
  - This function is not available in PC, HDMI or Component mode.



## Resetting the Picture Settings to the Factory Defaults

You can return to the factory defaults picture settings.

1. To select the desired picture effect, follow the "Changing the Picture Standard" instructions number 1 to 3 (on page 14.)
2. Press the **▲** or **▼** button to select "Reset", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "OK" or "Cancel".  
Press the **ENTER** button.
4. Press the **EXIT** button to exit.
  - The "Reset" will be set for each picture mode.



## Digital NR / Active Colour / DNle

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

1. Press the **MENU** button to display the menu.  
Press the **ENTER** button, to select "Picture".
2. Select the required option by pressing the **▲** or **▼** button, then press the **ENTER** button.  
Available options: Digital NR, Active Colour, DNle.
3. When you are satisfied with your setting, press the **ENTER** button.
4. Press the **EXIT** button to exit.

### ◆ Digital NR: Off/Low/Medium/High/Auto

If the signal received by the television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

➤ This function is not available in PC mode.

### ◆ Active Colour: Off/On

If you turn on this option, the colors of the sky and grass will be stronger and clearer for a more vivid on-screen picture.

➤ This function is not available in PC mode.

➤ This function is not available in Movie and Standard mode.

### ◆ DNle : Off/Demo/On

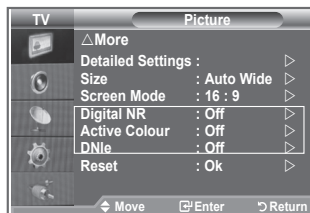
This TV includes the DNle function so as to provide a high visual quality. If you set DNle to on, you can view the screen with the DNle feature activated. If you set the DNle to Demo, you can view the applied DNle and normal pictures on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.

➤ DNle™ (Digital Natural Image engine) **DNle™**

This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNle™ technology will fit every signal into your eyes.

➤ This function is not available in PC mode.

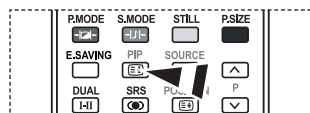
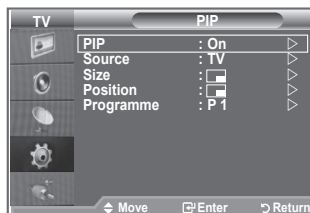
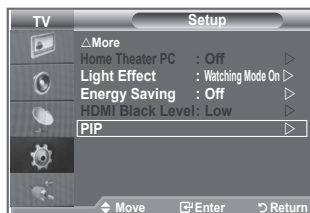
➤ This function is not available in Movie mode.



# Viewing the Picture In Picture (PIP)

You can display a sub picture within the main picture of set programme or video input. In this way, you can watch the picture of set programme or video input from any connected equipment while watching the main picture.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "PIP", then press the **ENTER** button.
3. Press the **ENTER** button again.  
Press the **▲** or **▼** button to select "On", then press **ENTER** button.  
➤ If the PIP is activated, the size of the main picture turns to "16:9".
4. Press the **▲** or **▼** button to select "Source", then press **ENTER** button. Select a source of the sub picture by pressing the **▲** or **▼** button and press the **ENTER** button.  
➤ The sub picture can serve different source selections based on what the main picture is set to.
5. Press the **▲** or **▼** button to select "Size" of the sub picture and then press the **ENTER** button.  
Select a size of the sub picture by pressing the **▲** or **▼** button and then press the **ENTER** button.  
➤ If main picture is in "Component" and "PC" mode, "Size" is not available.
6. Press the **▲** or **▼** button to select "Position", then press the **ENTER** button. Select the position of the sub picture by pressing the **▲** or **▼** button and then press the **ENTER** button.
7. Press the **▲** or **▼** button to select "Programme" and then press the **ENTER** button.  
You can select the channel that you want to view through sub picture by pressing the **▲** or **▼** button. Press the **ENTER** button.  
➤ The "Programme" can be active when the sub picture is set to TV.
8. Press the **EXIT** button to exit.  
➤ You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.



- Press the **PIP** button on the remote control repeatedly to activate or deactivate the "PIP".

- **Source:** Used to select a source of the sub picture.
- **Size:** Used to select a size of the sub picture.
- **Position:** Used to move the sub picture.
- **Programme:** Used to Change the sub picture.

## PIP Settings

O: PIP operates, X: PIP doesn't operate

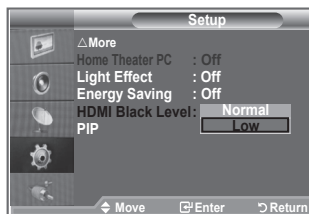
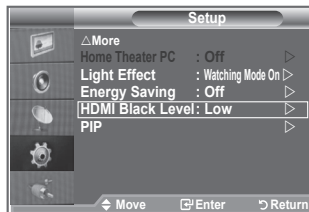
Main \ Sub	TV analog	Ext. 1	Ext. 2	AV	S-Video	Component	HDMI	PC	TV digital
Component	O	O	O	O	X	X	X	X	X
HDMI	O	O	O	O	X	X	X	X	X
PC	O	O	O	O	X	X	X	X	X

## HDMI Black Level

You can directly select the black level on the screen to adjust the screen depth.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "HDMI Black Level", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "Normal" or "Low", then press the **ENTER** button.
4. Press the **EXIT** button to exit.  
➤ This Function is active only when the external input connects HDMI(RGB signal).

- ♦ **Normal:** The screen gets brighter.
- ♦ **Low:** The screen gets darker.

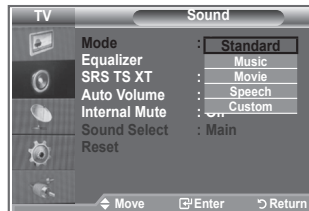
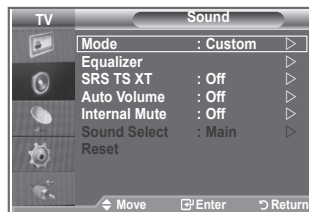


## Changing the Sound Standard

You can select the type of the special sound effect to be used when watching a given broadcast.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **ENTER** button again, to select "Mode".
3. Select the required sound effect by pressing the **▲** or **▼** button repeatedly and then press the **ENTER** button.
4. Press the **EXIT** button to exit.

- ♦ **Standard:** Selects the normal sound mode.
- ♦ **Music:** Emphasizes music over voices.
- ♦ **Movie:** Provides live and full sound for movies.
- ♦ **Speech:** Emphasizes voices over other sounds.
- ♦ **Custom:** Selects your custom sound settings.  
(Refer to "Adjusting the Sound Settings")

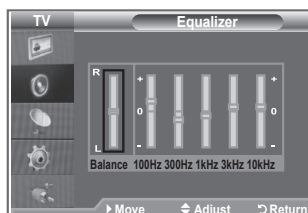
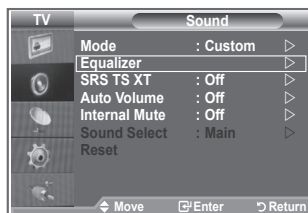




## Adjusting the Sound Settings

The sound settings can be adjusted to suit your personal preferences.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Equalizer", then press the **ENTER** button.
3. Press the **◀** or **▶** button to select a particular item.  
Press the **ENTER** button.
4. Press the **▲** or **▼** button to reach the required setting.  
Press the **ENTER** button.
5. Press the **EXIT** button to exit.
  - If you make any changes to these settings, the Sound Mode is automatically switched to "Custom".




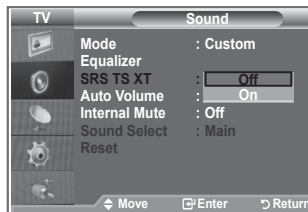
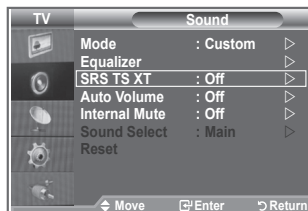
## Setting the TruSurround XT (SRS TS XT)

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "SRS TS XT", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "On" or "Off". Press the **ENTER** button.
4. Press the **EXIT** button to exit.



TruSurround XT, SRS and  symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.



You can also set these options simply by pressing the **SRS** button on remote control.

## Connecting Headphones

You can connect a set of headphones to your set if you wish to watch a TV programme without disturbing the other people in the room.

- When you insert the head set jack into the corresponding port, you can operate only "SRS TS XT" and "Auto Volume" in Sound menu.
- Prolonged use of headphones at a high volume may damage your hearing.
- You will not receive sound from the speakers when you connect headphones to the system.
- The headphone volume and TV volume are adjusted differently.

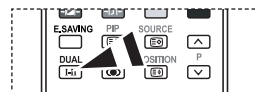


## Selecting the Sound Mode

You can set the sound mode by pressing the "DUAL" button.

When you press it, the current sound mode is displayed on the screen.

	Audio Type	DUAL 1/2	Default
FM Stereo	Mono	MONO	Automatic change
	Stereo	STEREO ↔ MONO	
	Dual	DUAL 1 ↔ DUAL 2	DUAL 1
NICAM Stereo	Mono	MONO	Automatic change
	Stereo	MONO ↔ STEREO	
	Dual	MONO ↔ DUAL 1 DUAL 2 ↔	DUAL 1



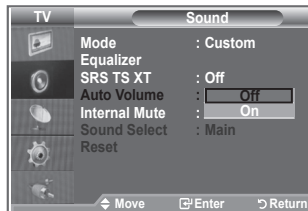
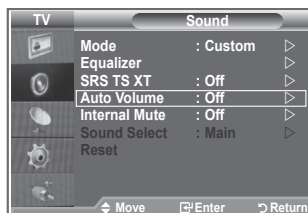
You can also set these options simply by pressing the **DUAL** button on remote control.

- If the stereo signal is weak and an automatic switching occurs, then switch to the Mono.

## Adjusting the Volume Automatically

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature allows you to automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

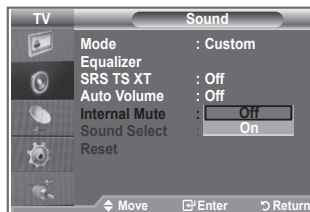
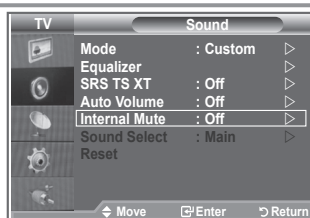
1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Auto Volume", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "On" or "Off". Press the **ENTER** button.
4. Press the **EXIT** button to exit.



## Selecting the Internal Mute

If you want to hear the sound through separate speakers, cancel the internal amplifier.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
  2. Press the **▲** or **▼** button to select "Internal Mute", then press the **ENTER** button.
  3. Press the **▲** or **▼** button to select "On" or "Off". Press the **ENTER** button.
  4. Press the **EXIT** button to exit.
- When "Internal Mute" is set to "On", the Sound menus except for "Sound Select" (in PIP mode) cannot be adjusted.



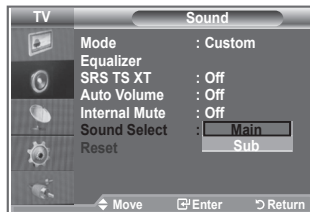
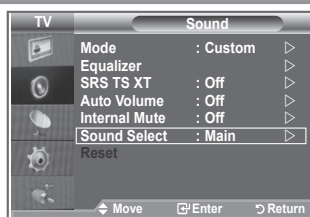
## Listening to the Sound of the Sub Picture

During the PIP features activation, you can listen to the sound of the sub picture.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Sound Select", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "Sub".  
Press the **ENTER** button.
4. Press the **EXIT** button to exit.

- ♦ **Main** : Used to listen to the sound of the main picture.
- ♦ **Sub** : Used to listen to the sound of the sub picture.

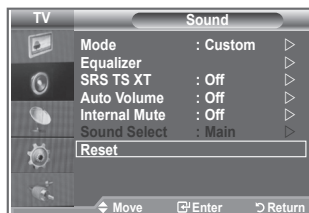
➤ You can select this option when the "PIP" is set to "On".



## Resetting the Sound Settings to the Factory Defaults

If Game Mode is On, the Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer setting to the factory defaults.

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Sound", then press the **ENTER** button.
  2. Press the **▲** or **▼** button to select "Reset", then press the **ENTER** button.
  3. Press the **EXIT** button to exit.
- You can select this option when the "Game Mode" is set to "On".



## Setting and Displaying the Current Time

You can set the TV's clock so that the current time is displayed when you press the INFO button. You must also set the time if you wish to use the automatic On/Off timers.

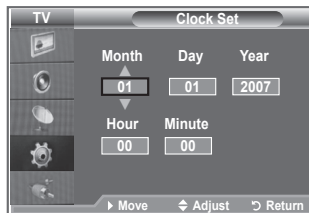
1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Time", then press the **ENTER** button.
3. Press the **ENTER** button to select "Clock Set".

4.

To...	Press the...
Move to Month, Day, Year, Hou or Minute	◀ or ▶ button.
Set the Month, Day, Year, Hou or Minute	▲ or ▼ button.
Press the <b>ENTER</b> button.	

5. Press the **EXIT** button to exit.

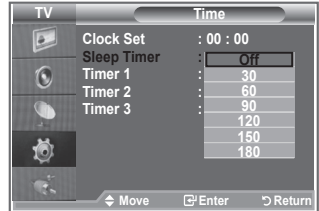
- If you disconnect the power cord, you have to set the clock again.
- You can also set Year, Month, Day, Hour and Minute by pressing the number buttons on the remote control.



## Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Time", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "Sleep Timer", then press the **ENTER** button.
4. Press the **▲** or **▼** button repeatedly until the desired time appears (Off, 30, 60, 90, 120, 150, 180).  
Press the **ENTER** button.
5. Press the **EXIT** button to exit.
  - The TV automatically switches to standby mode when the timer reaches 0.

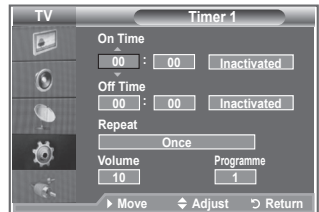


## Switching the Television On and Off Automatically

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Time", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "Timer 1", "Timer 2", "Timer 3", then press the **ENTER** button.
4. Press the **▲** or **▼** buttons to adjust "Hour", then press the **▶** button to move to the next step.  
Set other items using the same method as above.

	Activate or Inactivate	Press the <b>▲</b> or <b>▼</b> button
Repeat	Select a Once, Everyday, Mon-Fri, Mon-Sat, Sat-Sun	Press the <b>▲</b> or <b>▼</b> button
Volume	Adjust a 0~100	Press the <b>▲</b> or <b>▼</b> button
Programme	Adjust a Programme	Press the <b>▲</b> or <b>▼</b> button

- When finished, press the **RETURN** button to return.
  - The current time will appear every time you press the **INFO** button.
  - You can set the hour, minute, channel, and directly by pressing the number buttons on the remote control.
- 5. Press the **EXIT** button to exit.



## Choosing Your Language

When you start using your set for the first time, you must select the language which will be used for displaying menus and indications.

1. Press the **MENU** button to display the on-screen menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Language", then press the **ENTER** button.
3. Select a particular language by pressing the **▲** or **▼** button repeatedly. Press the **ENTER** button.
  - > You can choose one of 21 languages.
4. Press the **EXIT** button to exit.



## Using Game Mode

When connecting to a game console such as PlayStation™ or Xbox™, you can enjoy a more realistic gaming experience by selecting game menu.

1. Press the **MENU** button to display the menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Game Mode", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "On" or "Off". Press the **ENTER** button.
4. Press the **EXIT** button to exit.
  - > To disconnect the game console and connect another external device, cancel game mode in the setup menu
  - > If you display the TV menu in Game mode, the screen shakes slightly.
  - > Game Mode is not available in TV mode.
  - > If Game Mode is On:
    - Picture Mode changes to Standard and Sound Mode changes to Custom automatically. The user cannot change these to other modes.
    - Sound Mode in the Sound menu is deactivated. Adjust the sound using the equalizer.
    - The Reset Sound function is activated. Selecting the Reset function after setting the equalizer resets the equalizer setting to the factory defaults.



## Setting the Blue Screen Mode / Selecting the Melody

### Blue Screen:

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

### Melody:

You can hear melody sound when the television is powered on or off.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
  2. Press the **▲** or **▼** button to select "Blue Screen" or "Melody".  
Press the **ENTER** button.
  3. When you are satisfied with your setting, press the **ENTER** button.
- ◆ **Blue Screen:** Off/On
  - ◆ **Melody:** Off/Low/Medium/High
4. Press the **EXIT** button to exit.

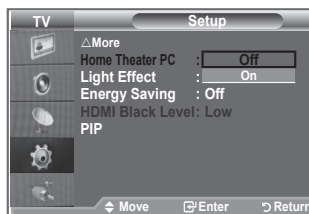
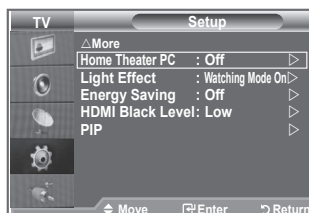


## Setting the Home Theater PC

You can view higher quality pictures by configuring the screen settings in PC Mode.

If you set the Home Theater PC function to On, you can configure the Detail Settings (when Picture Mode is set to Standard or Movie) as in PC Mode.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
  2. Press the **▲** or **▼** button to select "Home Theater PC".  
Press the **ENTER** button.
  3. Press the **▲** or **▼** button to select "Off" or "On".  
Press the **ENTER** button.
  4. Press the **EXIT** button to exit.
- This function is available only in PC mode.



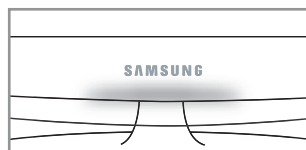
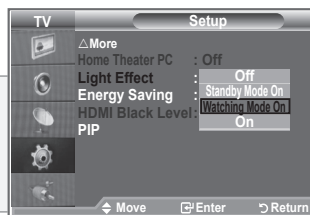
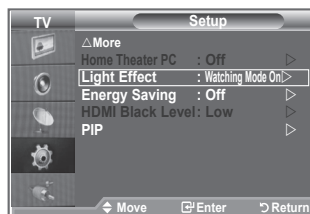
## Setting the Light Effect

You can turn on/off the blue LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes.

1. Press the **MENU** button to display the on-screen menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Light Effect", then press the **ENTER** button.
3. Select the required option (Off, Standby Mode On, Watching Mode On) by pressing the **▲** or **▼** button. Press the **ENTER** button.

- **Off:** LED will not come on.
- **Standby Mode On:** Turns the LED on in standby mode.
- **Watching Mode On:** Turns the LED on while watching TV.
- **On:** LED will come on after you turn the TV off.

4. Press the **EXIT** button to exit.

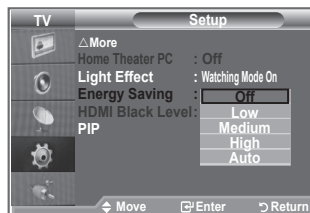
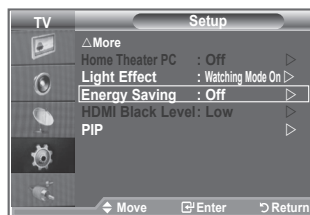


[LE23R81, LE26R81, LE23R83, LE26R83]

## Using the Energy Saving Feature

This function adjusts the brightness of the TV so as to reduce power consumption. When you watching TV at night, set the "Energy Saving " mode option to "High" so as to reduce the dazzling of your eyes as well as the power consumption.

1. Press the **MENU** button to display the on-screen menu. Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
2. Press the **▲** or **▼** button to select "Energy Saving", then press the **ENTER** button.
3. Select the required option (Off, Low, Medium, High, Auto) by **▲** or **▼** button. Press the **ENTER** button.
4. Press the **EXIT** button to exit.





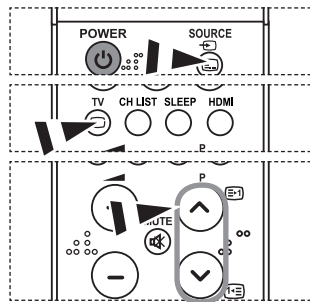


## Selecting the Source

You can select among external sources connected to your TV's input jacks.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Input", then press the **ENTER** button
2. Press the **ENTER** button again, to select "Source List".  
➤ When no external device is connected to your set, only "TV", "Ext.1", "Ext.2" are activated in the "Source List".  
"AV", "S-Video", "Component", "PC", "HDMI1", "HDMI2", are activated only when they are connected to your set.
3. Select the required device by pressing the **▲** or **▼** button.  
Press the **ENTER** button.

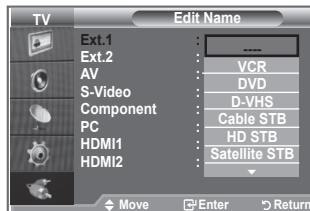
-  Press the **SOURCE** button on the remote control to toggle between all the available source. TV mode can be selected by pressing the **TV** button, number buttons (0~9), and the **PC**/ button on the remote control. But it cannot be selected using the **SOURCE** button.



## Editing the Input Source Names

Name the device connected to the input jacks to make your input source selection easier.

1. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Input", then press the **ENTER** button
2. Press the **▲** or **▼** button to select "Edit Name", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select the device that you wish to edit.  
Press the **ENTER** button.
4. Press the **▲** or **▼** button to select the required device.  
Press the **ENTER** button.
5. Press the **EXIT** button to exit.

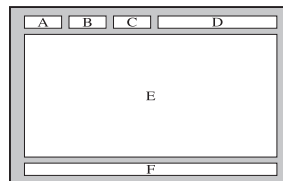


## Teletext Decoder

Most set channels carry " teletext ", pages of written information that provide information such as:

- ◆Television programme times.
- ◆News bulletins and Weather forecasts.
- ◆Sports results.
- ◆Subtitles for the hard of hearing.

The teletext pages are organized according to six categories:



Part	Contents
A	Selected page number.
B	Broadcasting station identity.
C	Current page number or search status.
D	Date and time.
E	Text.
F	Status information.

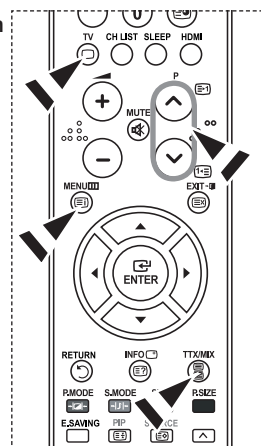
## Displaying the Teletext Information

You can display teletext information at any time, but signal reception must be good. Otherwise:

- ◆Information may be missing.
- ◆Some pages may not be displayed.

To activate the teletext mode and display the contents page:

1. Using the **P** (TV) or **P** (CH) button, select the channel providing the teletext service.
2. Press the **TTX/MIX** (TTX/MIX) button to activate the teletext mode.
  - The contents page is displayed. It can be redisplayed at any time by pressing the **MENU** (MENU) button.
3. Press the **TTX/MIX** (TTX/MIX) button again.
  - The actual broadcast will be displayed with "Teletext", "Double", and "Mix" in order on the screen.
4. Press the **TV** button to exit from the Text display.
  - If any broken character appears while Text is being viewed, make sure that the Text language is identical with the language in the "Setup" menu mode. If both languages are different, select the same language with the Text language on the "Setup" menu.

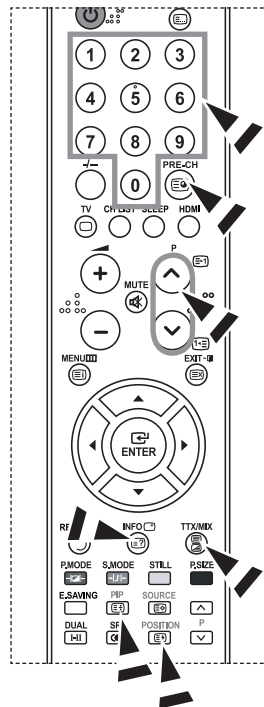


## Selecting a Specific Teletext Page

Press the number buttons on the remote control to enter the page number directly:

1. Enter the three-digit page number listed in the contents by pressing the corresponding numeric buttons.
2. If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the **PIP** (E3). Press the **PIP** (E3) button again to resume.
3. Using the various display options:

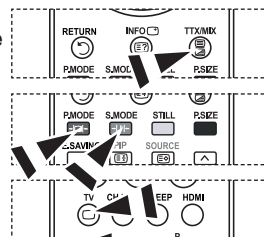
To display...	Press the...
Both teletext information and the normal broadcast	<b>TTX/MIX</b> (E1/E2)
Hidden text (answers to quiz games, for example)	<b>INFO</b> (E7)
The normal screen	<b>INFO</b> (E7)
A secondary page, by entering its 4-digit number	<b>PRE-CH</b> (E9)
The next page	<b>P</b> (E1) (E1)
The previous page	<b>P</b> (E1) (E1)
Double-size letters in the: • Upper half of the screen • Lower half of the screen	<b>POSITION</b> (E9) • Once • Twice
Normal screen	• Three times



## Using Fastext to Select a Teletext Page

The various topics included in the teletext pages are colour-coded, and can be selected by pressing the coloured buttons on the remote control.

1. Display the teletext contents page by pressing the **TTX/MIX** (E1/E2) button.
2. Press the coloured button corresponding to the topic that you wish to select (The available topics are listed on the status information line).
3. Press the Red button to display the previous page.  
Press the Green button to display the next page.
4. Press the TV button to exit from the Text display.



## Setting up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC may be different depending upon your particular version of Windows and your particular video card. Even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. First, click on "Control Panel" on the Windows start menu.
2. When the control panel window appears, click on "Appearance and Themes" and a display dialog-box will appear.
3. When the control panel window appears, click on "Display" and a display dialog-box will appear.
4. Navigate to the "Settings" tab on the display dialog-box.  
The correct size setting (resolution): Optimum- 1360 X 768  
If a vertical-frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.



## Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution. The resolutions in the table are recommended. (All resolutions between the supported limits are supported)

### > D-Sub Input

Mode	Resolution	H-Freq.(kHz)	V-Freq.(Hz)	Pixel Clock Freq.(MHz)	Sync Polarity (H/V)
IBM	640×350	31.469	70.086	25.175	+/-
	720×400	31.469	70.087	28.322	-/+
	640×480	31.469	59.940	25.175	-/-
VESA	640×480	37.861	72.809	31.500	-/-
	640×480	37.500	75.000	31.500	-/-
	640×480	43.269	85.008	36.000	-/-
	800×600	37.879	60.317	40.000	+/+
	800×600	48.077	72.188	50.000	+/+
	800×600	46.875	75.000	49.500	+/+
	800×600	53.674	85.061	56.250	+/+
	1024×768	48.363	60.004	65.000	-/-
	1024×768	56.476	70.069	75.000	-/-
	1024×768	60.875	75.029	78.750	+/+
	1024×768	68.677	84.997	94.500	+/+
	1024×768	48.364	60.000	65.000	- / -
	1024×768	60.023	75.029	78.750	+ / +
	1360×768	47.712	60.015	85.800	+/+
	1152×864	53.783	59.959	81.750	-/+
VESA GTF	640×480	35.000	70.000	28.560	-/+
	800×600	43.750	70.000	45.500	-/+
	1024×768	57.672	72.000	78.434	-/-

### > HDMI/DVI Input

Mode	Resolution	H-Freq.(kHz)	V-Freq.(Hz)	Pixel Clock Freq.(MHz)	Sync Polarity (H/V)
IBM	640×350	31.469	70.086	25.175	+/-
	720×400	31.469	70.087	28.322	-/+
	640×480	31.469	59.940	25.175	-/-
VESA	800×600	37.879	60.317	40.000	+/+
	1024×768	48.364	60.000	65.000	-/-
	1360×768	47.712	60.015	85.800	+/+

- > The interlace mode is not supported.
- > The set might operate abnormally if a non-standard video format is selected.
- > Separate and Composite modes are supported. SOG is not supported.

## Setting the PC

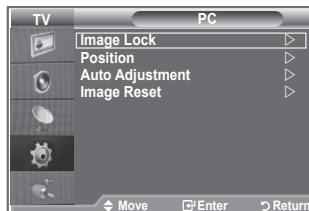
### Coarse and Fine Tuning of the Image (Image Lock):

The purpose of picture quality adjustment is to remove or reduce picture noise.

If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (coarse) and Fine-tune again.

After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

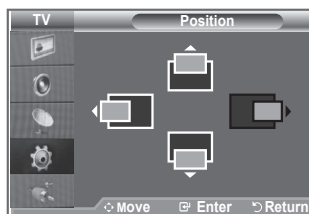
1. Preset: Press the **SOURCE** button to select PC mode.
2. Press the **MENU** button to display the menu.  
Press the **▲** or **▼** button to select "Setup", then press the **ENTER** button.
3. Press the **▲** or **▼** button to select "PC", then press the **ENTER** button.
4. Press the **ENTER** button to select "Image Lock".
5. Press the **▲** or **▼** button to select "Coarse" or "Fine", then press the **ENTER** button.
6. Press the **◀** or **▶** button to adjust the screen quality.  
Press the **ENTER** button.
7. Press the **EXIT** button to exit.



### Changing the Image Position:

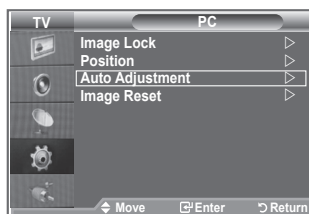
Adjust the PC's screen positioning if it does not fit the TV screen.

1. Follow the "Coarse and Fine Tuning of the Image (Image Lock)" instructions number 1 to 3.
2. Press the **▲** or **▼** button to select "Position", then press the **ENTER** button.
3. Press the **▲** or **▼** button to adjusting the Vertical-Position.  
Press the **◀** or **▶** button to adjust the Horizontal-Position.  
Press the **ENTER** button.
4. Press the **EXIT** button to exit.



**Adjusting the PC Screen Automatically (Auto Adjustment):**  
Auto adjustment allows the PC screen of set to self-adjust to the incoming PC video signal. The values of fine, coarse and position are adjusted automatically.

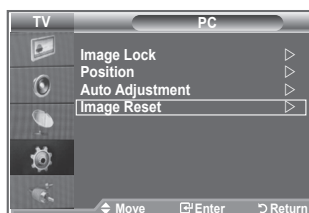
1. Follow the "Coarse and Fine Tuning of the Image (Image Lock)" instructions number 1 to 3.
2. Press the **▲** or **▼** button to select "Auto Adjustment", then press the **ENTER** button.
3. Press the **EXIT** button to exit.



### Initializing the Image Settings (Image Reset):

You can replace all image settings with the factory default values.

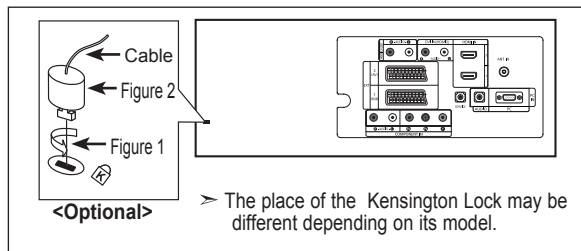
1. Follow the "Coarse and Fine Tuning of the Image (Image Lock)" instructions number 1 to 3.
2. Press the **▲** or **▼** button to select "Image Reset", then press the **ENTER** button.
3. Press the **EXIT** button to exit.





## Using the Anti-Theft Kensington Lock

The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.

1. Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
2. Connect the Kensington lock cable.
3. Fix the Kensington lock to a desk or a heavy stationary object.



## Troubleshooting: Before Contacting Service Personnel

No sound or picture	<ul style="list-style-type: none"><li>• Check that the mains lead has been connected to a wall socket.</li><li>• Check that you have pressed the POWER  buttons on the front of the set.</li><li>• Check the picture contrast and brightness settings.</li><li>• Check the volume.</li></ul>
Normal picture but no sound	<ul style="list-style-type: none"><li>• Check the volume.</li><li>• Check whether the MUTE  button has been pressed on the remote control.</li><li>• Check if "Internal Mute" is off</li></ul>
No picture or black and white picture	<ul style="list-style-type: none"><li>• Adjust the colour settings.</li><li>• Check that the broadcast system selected is correct.</li></ul>
Sound and picture interference	<ul style="list-style-type: none"><li>• Try to identify the electrical appliance that is affecting the set and move it further away.</li><li>• Plug your set into a different mains socket.</li></ul>
Blurred or snowy picture, distorted sound	<ul style="list-style-type: none"><li>• Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.</li></ul>
Remote control malfunctions	<ul style="list-style-type: none"><li>• Replace the remote control batteries.</li><li>• Clean the upper edge of the remote control (transmission window).</li><li>• Check the battery terminals.</li></ul>
"Check signal cable." message is displayed.	<ul style="list-style-type: none"><li>• Check that the signal cable is firmly connected to the PC or video sources.</li><li>• Check that the PC or video sources are turned on.</li></ul>
On PC mode, "Not Supported Mode." message is displayed.	<ul style="list-style-type: none"><li>• Check the maximum resolution and the frequency of the video adaptor.</li><li>• Compare these values with the data in the Display Modes.</li></ul>

The TFT LCD panel uses a panel consisting of sub pixels (3,133,440) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

## Technical and Environmental Specifications

Model Name	LE23R8	LE26R8
Screen Size (Diagonal)	23 inch	26 inch
PC Resolution	1360 x 768 @ 60 Hz	1360 x 768 @ 60 Hz
Sound Output	3 W X 2	5 W X 2
Dimension (WxDxH)		
Body	586 x 84 x 406 mm	666 X 85 X 461 mm
With stand	586 x 216 x 445 mm	666 X 216 X 500 mm
Weight		
With stand	8 kg	10 kg
Environmental Considerations		
Operating Temperature	10 °C to 40 °C (50 °F to 104 °F)	10 °C to 40 °C (50 °F to 104 °F)
Operating Humidity	10 % to 80 %, non-condensing	10 % to 80 %, non-condensing
Storage Temperature	-20 °C to 45 °C (-4 °F to 113 °F)	-20 °C to 45 °C (-4 °F to 113 °F)
Storage Humidity	5 % to 95 %, non-condensing	5 % to 95 %, non-condensing

- Design and specifications are subject to change without prior notice.
- This device is a Class B digital apparatus.
- For the power supply and Power Consumption, refer to the label attached to the product.

## Warning! Important Safety Instructions

Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.

### CAUTION

#### RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.



This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
- Do not cover the slots and openings with a cloth or other materials.
- Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
- Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place sources of heat on this apparatus, such as a candles, ash trays, incense or other similar items.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.).  
If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.  
You can clean this apparatus with damp cloth when necessary, but be sure to unplug the apparatus first.
- Do not expose this apparatus to extreme temperature conditions or to extreme humidity conditions.
- This apparatus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- To cut off the power source, unplug this apparatus from the wall outlet.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.  
This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Be sure to hold the plug, not the cord, when disconnecting this apparatus from an electric socket.
- Locate this apparatus near an easily accessible AC outlet.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it
  - unplug it immediately and contact an authorized dealer or service center.
- Unplug this apparatus from the AC outlet before any service.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
- Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.



## Wiring the Mains Power Supply Plug (UK Only)

### IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS11362 of the same rating must be used. Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug. Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.


### IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows: The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

### WARNING:

DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL , OR COLOURED GREEN OR GREEN AND YELLOW.

## Warranty Card



### UNITED KINGDOM

This Samsung product is warranted for a period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.  
Customer Care Centre  
PO Box 17243  
Edinburgh, EH11 4YB  
United Kingdom

Tel: 0870 SAMSUNG (7267864)(UK & Northern Ireland)  
Tel: 0818 717 100 (Republic of Ireland Only)  
Fax: +44 (0)870 7221127  
Web : [www.samsung.com/uk](http://www.samsung.com/uk)

### WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imburement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured.

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left blank.***



***Correct Disposal of This Product (Waste Electrical & Electronic Equipment)***

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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